

# Recovery Plan Action Status

**Plan Name: South Florida Multi-Species Recovery Plan (68 spp.)**

**Plan Status: Final**

**Plan Date: 18-May-99**

**Lead Agency: USFWS**

**Lead Office: South Florida Ecological Services Field Office**

**(772) 562-3909**

| Species   | Action Priority # | Action #  | Action Description  | Action Status       | Est. Initiation Date | Est. Completion Date | Responsible Parties  | Work Type                  | Labor Type                  | Action Comments   |
|---|-------------------|-----------|---|---------------------|----------------------|----------------------|--|----------------------------|-----------------------------|---|
| Everglade snail kite (Rostrhamus sociabilis plumbeus) | 2                 | eski-h1.1 | Plan/carry out periodic drawdowns of lakes on a rotational basis in the Kissimmee Chain of Lakes.                             | Ongoing Not Current |                      |                      | U.S. Army Corps of Engineers, Florida Fish and Wildlife Conservation Commission, Water Management Districts  | Work type not yet selected | Labor type not yet selected | Cost difficult to determine because task involves extensive cooperation and cost sharing among a number of agencies. Action lead(s): WMD, FWC |
| Everglade snail kite (Rostrhamus sociabilis plumbeus) | 2                 | eski-h1.2 | Control or remove exotic vegetation in wetlands.  | Ongoing Current     |                      |                      | U.S. Army Corps of Engineers, Florida Department of Environmental Protection, Florida Fish and Wildlife Conservation Commission, Florida Department of Agriculture and Consumer Services, Water Management Districts | Work type not yet selected | Labor type not yet selected | Cost is per acre (ex. 1.0/acre); Total cost dependent upon number of acres infested with exotics.   |
| Everglade snail kite (Rostrhamus sociabilis plumbeus) | 2                 | eski-h1.3 | Use controlled burns to open up areas of overly dense vegetation in lake littoral zones and marshes.                          | Not Started         |                      |                      | Florida Department of Environmental Protection, Florida Fish and Wildlife Conservation Commission, Water Management Districts, Private industry, landowners, etc.  | Work type not yet selected | Labor type not yet selected | Cost is per acre (ex. .03/acre); Total cost dependent upon number of acres burned. Action lead(s): WMD, FWC                                   |
| Everglade snail kite (Rostrhamus sociabilis plumbeus) | 2                 | eski-h1.4 | Ensure that information on wetlands of importance for eski nesting and feeding is considered in review of regulatory permits. | Not Started         |                      |                      | U.S. Army Corps of Engineers, South Florida counties   | Work type not yet selected | Labor type not yet selected | Cost included in standard operating procedures of reviewing agency's budget. Action lead(s): FWS, FWC   |

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| Everglade snail kite (Rostrhamus sociabilis plumbeus) | 2                 | eski-h1.5 | Prevent cultural eutrophication of lakes and marshes.  | Not Started         |                      |                      | U.S. Environmental Protection Agency, Florida Department of Environmental Protection, Florida Fish and Wildlife Conservation Commission, Water Management Districts                               | Work type not yet selected | Labor type not yet selected |  |
| Everglade snail kite (Rostrhamus sociabilis plumbeus) | 2                 | eski-h1.6 | Evaluate effects of Lake Okeechobee's regulation schedule on eski habitat.   | Ongoing Current     |                      |                      | U.S. Army Corps of Engineers, Florida Fish and Wildlife Conservation Commission, Water Management Districts   | Work type not yet selected | Labor type not yet selected | Action lead(s): FWS, COE   |
| Everglade snail kite (Rostrhamus sociabilis plumbeus) | 2                 | eski-h2.1 | Reverse the expansion of cattails in portions of the Everglades.   | Not Started         |                      |                      | U.S. Environmental Protection Agency, U.S. Army Corps of Engineers, Florida Department of Environmental Protection, Florida Fish and Wildlife Conservation Commission, Water Management Districts | Work type not yet selected | Labor type not yet selected |  |
| Everglade snail kite (Rostrhamus sociabilis plumbeus) | 2                 | eski-h2.2 | Construct and operate the Modified Water Deliveries to Everglades National Park and C-111 projects.                    | Ongoing Not Current |                      |                      | U.S. Army Corps of Engineers, Water Management Districts  | Work type not yet selected | Labor type not yet selected | Cost difficult to determine because task involves extensive cooperation and cost sharing among a number of agencies. Action lead(s): COE, NPS      |
| Everglade snail kite (Rostrhamus sociabilis plumbeus) | 2                 | eski-h2.3 | Investigate, plan, and carry out restoration projects for eski in the Kissimmee, Okeechobee, and Everglades watershed. | Ongoing Not Current |                      |                      | U.S. Army Corps of Engineers, Florida Fish and Wildlife Conservation Commission, Miccosukee and Seminole Indian Tribes of Florida, Water Management Districts, Private industry, landowners, etc. | Work type not yet selected | Labor type not yet selected | Cost difficult to determine because task involves extensive cooperation and cost sharing among a number of agencies. Action lead(s): FWS, WMD, FWC |

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| Everglade snail kite (Rostrhamus sociabilis plumbeus) | 2                 | eski-h3.1 | Conduct and use ATLSS model for eski to predict the response of eski to changes in hydropattern for specific water management proposals.         | Not Started     |                      |                      | U.S. Geological Survey, Florida Fish and Wildlife Conservation Commission, Public and private universities   | Work type not yet selected | Labor type not yet selected | Action lead(s): USGS, universities   |
| Everglade snail kite (Rostrhamus sociabilis plumbeus) | 1                 | eski-h3.2 | Continue and expand research on the effects of natural and human-caused hydrologic events on the ecology of the apple snail.                     | Ongoing Current |                      |                      | Florida Fish and Wildlife Conservation Commission, Water Management Districts, Public and private universities   | Work type not yet selected | Labor type not yet selected | Action lead(s): FWS, universities  |
| Everglade snail kite (Rostrhamus sociabilis plumbeus) | 3                 | eski-h3.3 | Evaluate long-term climate predictions to reduce likelihood of coincidence of human-caused drawdown and drought.                                 | Not Started     |                      |                      | Water Management Districts   | Work type not yet selected | Labor type not yet selected | Negligible cost because task implemented through managing agency's correspondence with climatologists. |
| Everglade snail kite (Rostrhamus sociabilis plumbeus) | 3                 | eski-h3.4 | Perform analysis of rainfall records throughout central and South Florida to identify the intensity and spatial and temporal extent of droughts. | Not Started     |                      |                      | U.S. Geological Survey, Public and private universities  | Work type not yet selected | Labor type not yet selected | Action lead(s): universities   |
| Everglade snail kite (Rostrhamus sociabilis plumbeus) | 2                 | eski-h3.5 | Evaluate need for secondary treatment in addition to nutrient removal by stormwater treatment areas.   | Not Started     |                      |                      | Florida Department of Environmental Protection, Florida Fish and Wildlife Conservation Commission, Water Management Districts, Public and private universities | Work type not yet selected | Labor type not yet selected |  |
| Everglade snail kite (Rostrhamus sociabilis plumbeus) | 2                 | eski-h4.0 | Monitor eski habitat and ecological processes.   | Not Started     |                      |                      | U.S. Environmental Protection Agency, U.S. Army Corps of Engineers, Florida Fish and Wildlife Conservation Commission, Non-governmental organizations          | Work type not yet selected | Labor type not yet selected | Action lead(s): FWS, FWC, WMD, universities, USGS/BRD  |

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| Everglade snail kite (Rostrhamus sociabilis plumbeus) | 3                 | eski-h5.0 | Increase public awareness of ecological relationships, environmental stressors, and restoration activities in South Florida. | Ongoing Current |                      |                      | Florida Fish and Wildlife Conservation Commission, Non-governmental organizations, Water Management Districts  | Work type not yet selected | Labor type not yet selected                | Action lead(s): FWS, FWC  |
| Everglade snail kite (Rostrhamus sociabilis plumbeus) | 1                 | eski-s1.1 | Estimate population size and survival, through mark/resighting of banded eski.   | Ongoing Current |                      |                      | U.S. Geological Survey, Water Management Districts, Public and private universities  | Work type not yet selected | Contract, Graduate Student                 | Action lead(s): FWS, universities   |
| Everglade snail kite (Rostrhamus sociabilis plumbeus) | 1                 | eski-s1.2 | Continue surveys of nesting effort and breeding success of eski.   | Ongoing Current |                      |                      | U.S. Army Corps of Engineers, Non-governmental organizations, Public and private universities  | Work type not yet selected | Contract, Graduate Student                 | Action lead(s): COE, WMD, universities  |
| Everglade snail kite (Rostrhamus sociabilis plumbeus) | 2                 | eski-s1.3 | Expand and refine existing information on movements and distribution of eski, particularly related to drought.               | Ongoing Current |                      |                      | U.S. Geological Survey, Biological Resources Division, Florida Fish and Wildlife Conservation Commission, Public and private universities  | Work type not yet selected | Contract, Graduate Student, Species Expert | Action lead(s): FWS, universities   |
| Everglade snail kite (Rostrhamus sociabilis plumbeus) | 3                 | eski-s1.4 | Organize and maintain a network of biologists to report eski sightings.  | Not Started     |                      |                      | Florida Fish and Wildlife Conservation Commission, Non-governmental organizations  | Work type not yet selected | Labor type not yet selected                | Action lead(s): FWS, FWC  |
| Everglade snail kite (Rostrhamus sociabilis plumbeus) | 2                 | eski-s2.2 | Use provisions of section 7 of the ESA to protect eski.  | Not Started     |                      |                      | U.S. Bureau of Land Management, U.S. Department of Agriculture, U.S. Geological Survey, Biological Resources Division, U.S. Geological Survey, U.S. Environmental Protection Agency, U.S. Army Corps of Engineers, Natural Resources Conservation Service, United States Coast Guard, U.S. Air Force | Work type not yet selected | Labor type not yet selected                | Cost included in standard operating procedures of Federal agency's budget. Action lead(s): All Federal agencies |

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| Everglade snail kite (Rostrhamus sociabilis plumbeus) | 2                 | eski-s3.1 | Expand information on survival of juvenile and adult eski.  | Not Started     |                      |                      | Florida Fish and Wildlife Conservation Commission, Public and private universities  | Work type not yet selected  | Labor type not yet selected | Action lead(s): universities            |
| Everglade snail kite (Rostrhamus sociabilis plumbeus) | 1                 | eski-s3.2 | Develop and validate a model that can evaluate natural and human-caused changes to eski habitat throughout its range. | Not Started     |                      |                      | U.S. Environmental Protection Agency, U.S. Army Corps of Engineers, Florida Fish and Wildlife Conservation Commission, Non-governmental organizations | Work type not yet selected  | Labor type not yet selected | Action lead(s): FWS, universities, USGS |
| Everglade snail kite (Rostrhamus sociabilis plumbeus) | 3                 | eski-s3.3 | Investigate genetic variability of eski.  | Not Started     |                      |                      | Florida Fish and Wildlife Conservation Commission, Private industry, landowners, etc.   | Work type not yet selected  | Labor type not yet selected |   |
| Everglade snail kite (Rostrhamus sociabilis plumbeus) | 1                 | eski-s4.1 | Monitor population size and survival over time through long-term mark/resighting of banded eski.                      | Ongoing Current |                      |                      | Florida Fish and Wildlife Conservation Commission, Non-governmental organizations, Public and private universities                                    | Research: Ecosystem Studies | Contract, Graduate Student  | Action lead(s): FWS, FWC, universities  |
| Everglade snail kite (Rostrhamus sociabilis plumbeus) | 2                 | eski-s4.2 | Monitor contaminants in eski and apple snails.  | Not Started     |                      |                      | U.S. Environmental Protection Agency, Florida Department of Environmental Protection, Public and private universities                                 | Work type not yet selected  | Labor type not yet selected | Action lead(s): FWS                     |
| Everglade snail kite (Rostrhamus sociabilis plumbeus) | 3                 | eski-s5.0 | Increase public awareness of eski.  | Ongoing Current |                      |                      | U.S. Army Corps of Engineers, South Florida counties, Public and private universities   | Work type not yet selected  | Species Expert              | Action lead(s): FWS, FWC, universities  |